

Natural Heritage & Endangered Species Program

MA Division of Fisheries & Wildlife

Route 135, Westborough, MA 01581

(508) 792-7270 x 165

RARE PLANT OBSERVATION FORM

OBSERVER INFORMATION

Observer's Name, Address, and Phone:

Arthur Haines
Woodlot Alternatives, Inc. 207-729-1199
122 Main Street, Number 3
Topsham, ME 04086

Species Scientific Name:

Sagittaria cuneata

NHESP Element Occurrence Number (if known):

Observation Date:

4 August 1999

Today's Date:

8 November 1999

LOCATIONAL INFORMATION

- a) USGS Quad Name and Series (7.5"x7.5" or 7.5"x15"): East Lee
County: Berkshire
Town: Lenox

- b) Directions to location of observations (please attach USGS map):

From Rock-lined parking lot in field at the end of the
Willow Creek Road, travel over bank to RR (east). Population
lies ~10 meters east of RR, and in an east line from Parking lot
area, in a small depression, north of Lenox Station, south of Willow-Creek
Bridge. Approximate UTM Coordinates - 4690650N - 0644665

c) Habitat: (plant communities, associated vegetation, physical characteristics, geological features, surrounding land use.

Are other rare species present?)

Circumneutral hardwood Swamp, in small, wet, vernaly flooded depression.
Growing with *Alisma triecale*, *Lythrum Salicaria*, *Lysimachia nummularia*,
Onoclea sensibilis, *Boehmeria cylindrica*, and *Lycopodium uniflorum*. *Acer rubrum* is
dominant overstory tree.

POPULATION INFORMATION:

Population found? (Y/N):

If No, is population presumed extirpated and why?

If Yes,

Number of mature plants: 12

Number of immature plants: 0

Number of plants age unknown:

Population area (give unit of measurement):

2 x 1.5 meters

Percent of population:

in leaf: 66%

in bud:

in flower: 25%

with immature fruit:

mature fruit: 0.08%

senescent:

Observations of floral visitors, fruit dispersers:

None observed

Vigor of individuals and population:

Apparently vigorous.

Evidence of expansion or decline:

none observed.

Have you observed this species at this site in previous years?

Please give details:

NO, first discovery

SITE PHYSIOGRAPHY

Elevation: +/- 290 meters

Topographic position (crest, upper slope, mid slope, lower slope, bottom?):

flat plain of river valley

Aspect (north, south, east, west, flat?):

Flat

Slope (0-20 degrees, 20-45 degrees, 45-75 degrees, vertical?):

Light (open, filtered, shade?):

Moisture (inundated, wet, mesic, dry, xeric?):

Soil types: wet silt/muck

Surficial rock types (with percent of ground covered):

none

Bedrock/parent material:

Unknown

Surficial water (distance away and source):

Housatonic River, ca. 50 meters

MANAGEMENT/OWNERSHIP:

MNHESP Site Name (if any):

Managed Area (if any):

Comments/Management recommendations:

Disturbance or threats (natural or unnatural) to population:

Changes in Hydrology, large-scale disturbances due to RR.

Land Owner's Name, Address, and Phone:

Land likely belongs to owner of Springfield Terminal Railroad.

Ownership Comments:

ELEMENT OCCURRENCE (EO) SUMMARY

(Circle one choice in each category)

EO Quality

How representative is this occurrence? Consider the size and

productivity of the population and the vitality and vigor of the individuals.

A - Excellent B - Good C - Marginal D - Poor

Comments:

Small population area and low numbers

EO Condition

Is the habitat supporting the EO pristine or degraded? Is there a potential for the habitat to recover from disturbances?

A - Excellent B - Good C - Marginal D - Poor

Comments: Though occurrence is relatively close to RR line.

EO Viability

What are the long-term prospects for continued existence of this occurrence at the indicated level of quality?

A - Excellent B - Good C - Marginal D - Poor

Comments:

EO Defensibility

Can this occurrence be protected from extrinsic human factors?

A - Excellent B - Good C - Marginal D - Poor

Comments: likely property is privately owned.

EO RANK

A summary of all factors listed above.

A - Excellent B - Good C - Marginal D - Poor

Comments: This, like most of the Housatonic River populations, are small, isolated colonies confined to a single depression or backwater pool shoreline.

ADDITIONAL COMMENTS (if any)

CERTIFICATION

I hereby certify under pains and penalties of perjury that the information contained in this report is true and complete to the best of my knowledge.

Signature:

Arthur Hawkes

Date: 8 November 1999

Please submit form, a copy of a USGS topo map showing plant location, and all supporting documentation to the State Botanist at:

Massachusetts Natural Heritage & Endangered Species Program
Division of Fisheries & Wildlife

Route 135

Westborough, MA 01581

(508) 792-7270 ext 200

Thank you for contributing to the Natural Heritage &
Endangered Species Program database. Your efforts are
valuable and appreciated.

EAST LEE, MASSACHUSETTS

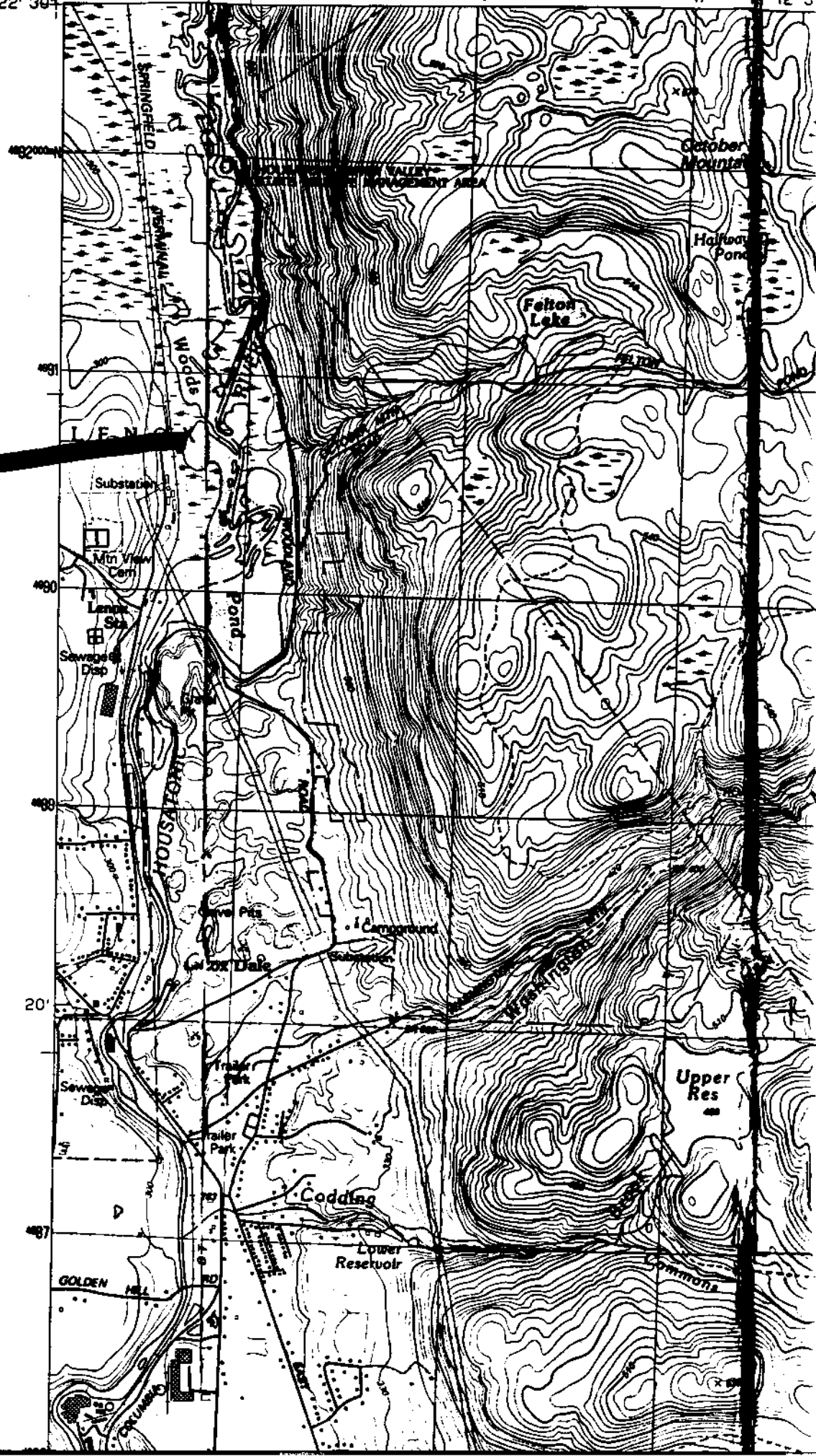
73° 15'
42° 22' 39"

450000E

446

447

12' 3



(East Lee
1:25,000)